

## ABSTRACT

[0130] Spinal spacers 20 are provided for fusion of a motion segment. The spacers include a load bearing member 21 having a wall 22 sized for engagement within a space between adjacent vertebrae to maintain the space and an effective amount of an osteogenic composition to stimulate osteoinduction. The osteogenic composition includes a substantially pure osteogenic factor in, a pharmaceutically acceptable carrier. In one embodiment the load bearing member includes a bone graft impregnated in an osteogenic composition. In another embodiment, the osteogenic composition 30 is packed within a chamber 25 defined in the graft. Any suitable configuration of a bone graft is contemplated, including bone dowels, D-shaped spacers and cortical rings. A spinal spacer 300 for engagement between vertebrae is also provided which includes a body 301 formed of a bone composition. The body 301 includes a first end 311, an opposite second 315 end, a superior face 335 defining a superior vertebral engaging surface 337 and an inferior face 338 defining an inferior vertebral engaging surface 340. At least one of the vertebral engaging surfaces defines a set of migration resistance grooves 350. Each of the grooves 350 includes a first face 355 defining an angle of no more than about 90 degrees relative to the engaging surface 340 and a second opposing sloped face 360. The first and second faces 355, 360 define an arcuate pocket 370 therebetween for trapping vertebral bone to resist migration of the spacer 300. In one embodiment, the grooves 350 are arranged in series in that all of the second faces 360 slope in the same direction.

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